

**Claims:**

A listing of the entire set of pending claims (including amendments to the claims, if any) is submitted herewith per 37 CFR 1.121. This listing of claims will replace all prior versions, and listings, of claims in the application.

**Listing of Claims:**

1. (currently amended) A semiconductor device comprising an optoelectronic semiconductor element comprising a semiconductor body, a surface of which has an optically active part and a non-optically active part ~~in which are located, said non-optically active part comprising~~ electrical connection areas of the optoelectronic semiconductor element, above which optically active part of the surface of the semiconductor body an optical body is located comprising an optical component, ~~characterized in that wherein the~~ optical body comprises an optically transparent foil in which the optical component is formed that is located on the optically active part of the surface of the semiconductor body and is connected to it, and wherein the foil is connected to the surface of the semiconductor body by means of an optically transparent adhesive layer.
2. (canceled)
3. (currently amended) A semiconductor device as claimed in claim 1, wherein ~~characterized in that~~ a further body is attached to the semiconductor body, which further body comprises a further optical component above the active part of the surface of the semiconductor body which further optical component is separated from the foil by a hollow space.
4. (currently amended) A semiconductor device as claimed in claim 3, wherein ~~characterized in that~~ the further body comprises a cylindrical part of which one end is glued to the foil and of which the other end is provided with the further optical component.

5. (currently amended) A semiconductor device as claimed in claim 1, wherein characterized in  
~~that~~ the optoelectronic semiconductor element is fixed to an electrically insulating flexible foil of  
which one side is provided with a conductor pattern, the electrical connection areas are  
connected to the conductor pattern by means of wire links and the wire links are enveloped in an  
insulating sheathing.

6. (currently amended) A semiconductor device as claimed in claim 1, wherein characterized in  
~~that~~ the optoelectronic semiconductor element comprises a solid-state image sensor, the  
component comprises a lens and the further component comprises a lens and/or a filter opaque to  
infrared radiation.

7. (currently amended) A method of manufacturing a semiconductor device comprising an  
optoelectronic semiconductor element with a semiconductor body of which one surface has an  
optically active part and an optically non-active part, said non-optically active part comprising  
~~within which there are~~ electrical connection areas of the optoelectronic semiconductor element,  
above which optically active part of the surface of the semiconductor body an optical body is  
installed comprising an optical component, wherein characterized in that for the body is ~~chosen~~  
an optically transparent foil in which the optical component is formed that is installed on the  
optically active part of the surface of the semiconductor body and wherein the optical component  
is fixed to the surface of the semiconductor body by means of an optically transparent adhesive  
layer.

8. (canceled)

9. (currently amended) A method as claimed in claim 7, wherein characterized in that the  
optical component is formed in the foil by pressing the foil with a profiled die and preferably  
while at the same time heating is applied.

10. (currently amended) A method as claimed in claim 7, ~~wherein characterized in that~~ a further body that is provided with a further optical component is fixed to the semiconductor body so that the further optical component is located above the optically transparent foil and is separated from it by a hollow space.

11. (currently amended) A method as claimed in claim 10, ~~wherein characterized in that~~ for the further body comprises a cylindrical part ~~is selected~~ of which one end is glued to the foil and of which the other end is provided with the further optical component.

12. (currently amended) A method as claimed in claim 7, ~~wherein characterized in that~~ the optoelectronic semiconductor element is fixed to an electrically insulating flexible foil of which one side is provided with a conductor pattern, the electrical connection areas are connected to the conductor pattern by means of wire links and the wire links are enveloped in an insulating sheathing.

13. (currently amended) A method as claimed in ~~claim any one of the claims~~ 7, characterized in that a carrier body comprises a number of strip-like or rectangular optically transparent foils which receive the adhesive layer on the side turned away from the carrier body is moved above a wafer that contains a number of semiconductor elements and, after the carrier body with the foils has been aligned relative to the wafer of semiconductor elements, the foils are glued to the semiconductor elements by pressing the carrier body onto the wafer after which the carrier body is removed.

14. (currently amended) A method as claimed in claim 13, ~~wherein characterized in that~~ once the wafer has received the optically transparent foils and once the optical component has been formed therein, a further body that is provided with a further optical component is attached to each of the semiconductor elements in the wafer so that the further component is located above the active part of the surface of the semiconductor element and is separated from the foil by a hollow space.

15. (currently amended) A method as claimed in claim 14, wherein ~~characterized in that~~ the wafer is fixed with a side facing the surface of the semiconductor elements to a membrane that is located inside a ring and is split up into separate semiconductor elements by sawing after the further optical component has been installed.

16. (currently amended) A method as claimed in claim 15, wherein ~~characterized in that~~ individual semiconductor elements are fixed to a strip-like electrically insulating flexible foil of which one side is provided with a conductor pattern, the electrical connections are linked to the conductor pattern by wire links, the wire links are enveloped in a sheathing after which the strip-like flexible foil is split up into parts each one of which comprising a semiconductor element.

17. (currently amended) A method as claimed in ~~one of the claims~~ claim 13, wherein ~~characterized in that~~ the foils are made by gluing an optically transparent film onto a UV transparent carrier film by means of a glue that can be detached by UV radiation, forming strip-like or rectangular foils in the optically transparent film by cutting by means of a laser beam, after which the redundant parts of the film can be partly pressed out of it or completely removed.

18. (currently amended) A method as claimed in claim 17, wherein ~~characterized in that~~ the carrier body is formed by the UV transparent carrier film and in that this is removed by exposure to UV light after the redundant parts of the film have been removed and after the foils have been fixed to the wafer.

19. (currently amended) A method as claimed in claim 17, wherein ~~characterized in that~~ the carrier body is formed by a plate-like pair of vacuum tweezers with which the UV transparent carrier film provided with foils is picked up after which the UV transparent carrier film is removed by UV exposure, subsequent to which the redundant parts of the film are torn off the carrier body.

